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## WHAT IS CLAIMED IS:

- 1 1. An electric heating/warming composite fabric article, comprising:
- a fabric layer having an inner surface and an outer surface,
- a barrier layer disposed at said inner surface of said fabric layer, said barrier layer
- 4 having an inner surface and an outer surface, and
- an electric heating/warming element comprising a flexible, electricity-conducting
- 6 film, the element disposed between said outer surface of said barrier layer and said inner
  - surface of said fabric layer, the heating/warming element being adapted to generate
- 8 heating/warming when connected to a power source.
- 1 2. The electric heating/warming composite fabric article of claim 1, wherein said
  - electric heating/warming element is disposed upon said outer surface of said barrier layer.
- 1 3. The electric heating/warming composite fabric article of claim 1, wherein said
  - outer surface of said barrier layer is secured at least adjacent to said inner surface of said
- 3 fabric layer.
- 1 4. The electric heating/warming composite fabric article of claim 2, wherein said
- outer surface of said barrier layer is secured upon said inner surface of said fabric layer.
- 5. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 electric heating/warming element is stretchable.
- 1 6. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 fabric layer is hydrophobic.
- 1 7. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 fabric layer is hydrophilic.

- 1 8. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 barrier layer is micro-porous hydrophobic.
- 1. 9. The electric heating/warming composite fabric article of claim 9, wherein said
- 2 barrier layer is nonporous hydrophilic.
- 1 10. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 barrier layer is nonporous hydrophilic.
- 1 11. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 barrier layer is formed of poly urethane.
- 1 12. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 barrier layer is formed of poly tetrafluoroethylene (PTFE).
- 1 13. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 barrier layer is resistant to passage of air and water droplets and permeable to water
- 3 vapor.
- 1 14. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 electric heating/warming element is washable, non-swelling and hydrophobic.
- 1 15. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 electric heating/warming element is resistant to stiffening and cold crack.
- 1 16. The electric heating/warming composite fabric article of claim 1, wherein said
- electric heating/warming element has resistivity in the range of about  $100 (1x10^2)$  ohm-
- 3 cm to  $0.000001 (1x10^{-6})$  ohm-cm.
- 1 17. The electric heating/warming composite fabric article of claim 1, wherein said
- 2 electricity-conducting film comprises synthetic resin.

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- 1 18. The electric heating/warming composite fabric article of claim 18, wherein said
- 2 electricity-conducting film further comprises conductive particles.
- 1 19. The electric heating/warming composite fabric article of claim 19, wherein said
- 2 conductive particles comprises at least one of silver and graphite.
- 1 20. A method of forming an electric heating/warming composite fabric article, comprising:
- providing a fabric layer having an inner surface and an outer surface and a barrier layer having an inner surface and an outer surface,
- applying an electricity-conducting paste upon the outer surface of the barrier layer in a predetermined pattern of an electric circuit,
  - joining the inner surface of the fabric layer to the outer surface of the barrier layer, and
  - curing the electricity-conducting paste to form an electric heating/warming element of a flexible, electricity-conducting film defining an electric circuit upon the outer surface of the barrier layer, the electric heating/warming element being adapted for connection to a power source, thereby to generate heating/warming.
- 1 21. The method of claim 20, wherein, during the step of curing, the electricity-
- 2 conducting paste is cured to form a stretchable film defining the electric circuit.
- 1 22. The method of claim 20, further comprising a step of incorporating the electric
- 2 heating/warming composite fabric article into an article of apparel.
- 1 23. The method of claim 22 wherein the article of apparel is one of a jacket, a
- 2 sweater, a hat, a glove, a shirt, pants, a sock, a boot, and a shoe.
- 1 24. The method of claim 20, further comprising a step of incorporating the electric
- 2 heating/warming composite fabric article into a home furnishing textile article.

- 1 25. The method of claim 24 wherein the home furnishing textile article is one of a
- blanket, a throw and a seat warmer.
- 1 26. The method of claim 20, further comprising a step of connecting the electric
- 2 heating/warming element to a power source, thereby to generate heating/warming.